: FLOAT STEP ASSEMBLY LH (206/407)

Wednesday, 1/11/2006 4:10:22 PM

User:

Kim Johnston

**Process Sheet** 

Customer

: CU-DAR001 Dart Helicopters Services

Job Number **Estimate Number**  : 23320A

: 11664

P.O. Number

This Issue

Prsht Rev.

First Issue

Previous Run

: NIA

: 1/11/2006

: NC

· NIA : 25434A Type

S.O. No. : NIA

: LARGE FAB ASSY

:SRE COMPAT BROW

Part Number **Drawing Number** 

**Drawing Name** 

: D2842041

: D2841 REV B

Project Number

: N/A

**Drawing Revision** Material

; B :NIA

**Due Date** 

: 1/30/2006

Qty:

2 Um:

Each

Written By

Checked & Approved By Comment

ER ABOVE USE & DATE. : Est Rev:D As Per Ecn 766 06-01-06 JLM

**Additional Product** 

Job Number:



Seq. #:

Machine Or Operation:

Description:

1.0

D2622120C

Qty

1



Comment: Qty.:

1.0000 Each(s)/Unit Total:

Part# D2622-120C

Description Extrusion

2.0000 Each(s)

Extrusion

Batch:

324092

Check Material for any Dents or Defects

2.0

LARGE FAB 1

LARGE FABRICATION RESOURCE 1



Comment: LARGE FABRICATION RESOURCE 1

1-Cut D2842-1 using D2622 extrusion as per Dwg D2842

2-Drill D2842-1 using Jig DT8271 as per Dwg D2842

3-Deburr and bevel ends for welding

l. E 06.02.7=2

3.0

D2734

206 Step Endplate



Comment: Qty.:

2.0000 Each(s)/Unit

Total:

4.0000 Each(s)

206 Step Endplate

Qtv

Description

Batch

End Cap

120957

Pick:

D2734

Part Number

l.k. 06.02.8=2

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W/O:		WORK ORDER CHANGES							
DATE	STEP		PROCEDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approva QC Inspecto
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			<b>3</b> )						

Part No:	PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:
			QA: N/C (	losed:	Date:

NCR:		· · V	VORK OR	DER NON-CONFORMANC	E (NCR)			, , , , , , , , , , , , , , , , , , ,
		Description of NC		Corrective Action Section B		Verification	Ammassal	Ammount
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
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Wednesday, 1/11/2006 4:10:23 PM Kim Johnston User: **Process Sheet** Drawing Name: FLOAT STEP ASSEMBLY LH (206/407) Customer: CU-DAR001 Dart Helicopters Services Job Number: 23320A Part Number: D2842041 Job Number: Seq. #: **Machine Or Operation:** Description: Step Lug D2776 2.0000 Each(s)/Unit Total: 4.0000 Each(s) Comment: Qty.: Step Lug Pick: Qty Part Number Description Batch LARGE FABRICATION RESOURCE 1 LARGE FAB 1 5.0 Comment: LARGE FABRICATION RESOURCE 1 16.06.02.08 FF.06.02.08 as per Dwg D2842 followed by DT 1-Weld one end cap and (2) lugs using Jig DT AL Rod Batch: M18839 2-Grind end cap weld flush WELD INSPECTION QC5/9 6.0 Comment: WELD INSPECTION HAND FINISHING RESOURCE #1 HAND FINISHING1 7.0 Comment: HAND FINISHING RESOURCE #1 Chemical Conversion Coat as per QSI 005 4.1 8.0 QC3 16.03.01 Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION LARGE FABRICATION RESOURCE 1 9.0 Comment: LARGE FABRICATION RESOURCE 1 1-Remove alodine prior to welding. Weld end cap as per Dwg D2842. Batch: 324402 = 1pcs B20757 = 1pcs >B118838

Form: rprocess

Page 2

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W/O:	WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
				11-11-11-11			
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Part No:	_ PAR #:	Fault Category:	NCR: Yes	lo DQA:	Date:
			QA: N/	C Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
		Description of NC		Corrective Action Section B		Verification	Ammroyal	A
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspecto
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Date: Wednesday, 1/11/2006 4:10:23 PM User: Kim Johnston **Process Sheet** Drawing Name: FLOAT STEP ASSEMBLY LH (206/407) Customer: CU-DAR001 Dart Helicopters Services Part Number: D2842041 Job Number: 23320A Job Number: Description: Seq. #: **Machine Or Operation:** 2-Grind end cap weld flush. WELD INSPECTION 10.0 QC5/9 Comment: WELD INSPECTION 03-03-02 POWDER COATING POWDER COATING Comment: POWDER COATING Touch up Alodine end cap and Powder Coat Gloss White (Ref. 4.3.5.1) as per QSI 005 4.3  $\mathcal{O}$ .  $\mathcal{O}$  6 6 0 3  $\mathcal{O}$  0 NAS1329C3KB130 12.0 3.0000 Each(s)/Unit Total: Comment: Qty.: 6.0000 Each(s) Insert Pick: **Qty Part Number Description Batch** NAS1329C3KB130Insert M1000 34 screw 13.0 MS27039C107 Comment: Qty.: 3.0000 Each(s)/Unit Total: 6.0000 Each(s) Pick: Description Batch **Qty Part Number** MS27039C1-07 Screw NAS1515H3L 14.0 Total: 6.0000 Each(s) Comment: Qty.: 3.0000 Each(s)/Unit Pick: **Qty Part Number Description Batch** NAS1515H3L WASHER 15.0 AN960C10L Comment: Qty.: 3.0000 Each(s)/Unit Total: 6.0000 Each(s) 06 03 10 Pick: Description Batch Qty Part Number m 18822 AN960C10L WASHER

## **Dart Aerospace Ltd**

W/o: WORK ORDER CHANGES							
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
a n.27	4	- correct style of logs and Qty as per Dwg change has been upole.		2.2k.		16.02.27	lanza
96.03.08	ð	- CHANGE ORTLL SIZE FOR HOLES TO 'E' INSTEAD OF Q	0673.	ł		(X 03.56	

Part No:	PAR #:	Fault Category:	_ NCR: Yes No DQA: Date: Oblo3/

QA: N/C Closed: \_\_\_\_ Date: \_\_\_\_

NCR:		W	ORK OR	DER NON-CONFORMANCE	(NCR)			
		Description of NC		Corrective Action Section B	· · · · · · · · · · · · · · · · · · ·	Verification	A	Approval QC Inspector
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	
gnzz	2	Goods of stops bent inwards clue to welding the logs to Dot, and the heatpulied the ends of the step in.	A 01.22	Steps are Acceptable. weld I lug at Atime, and let parts cool between welds.	K		Se. 77.22	
6 OL 22	2	Holechrilled on both sides of steps. Hole only to be onere side.	A	Fill holes with weld and grind flush as per as 1 oc4.	06.02.27			06.20
	4.,			See Attateled E-mp. 1.	04.02.27	(un.25	West.	106.022
				·		/		,

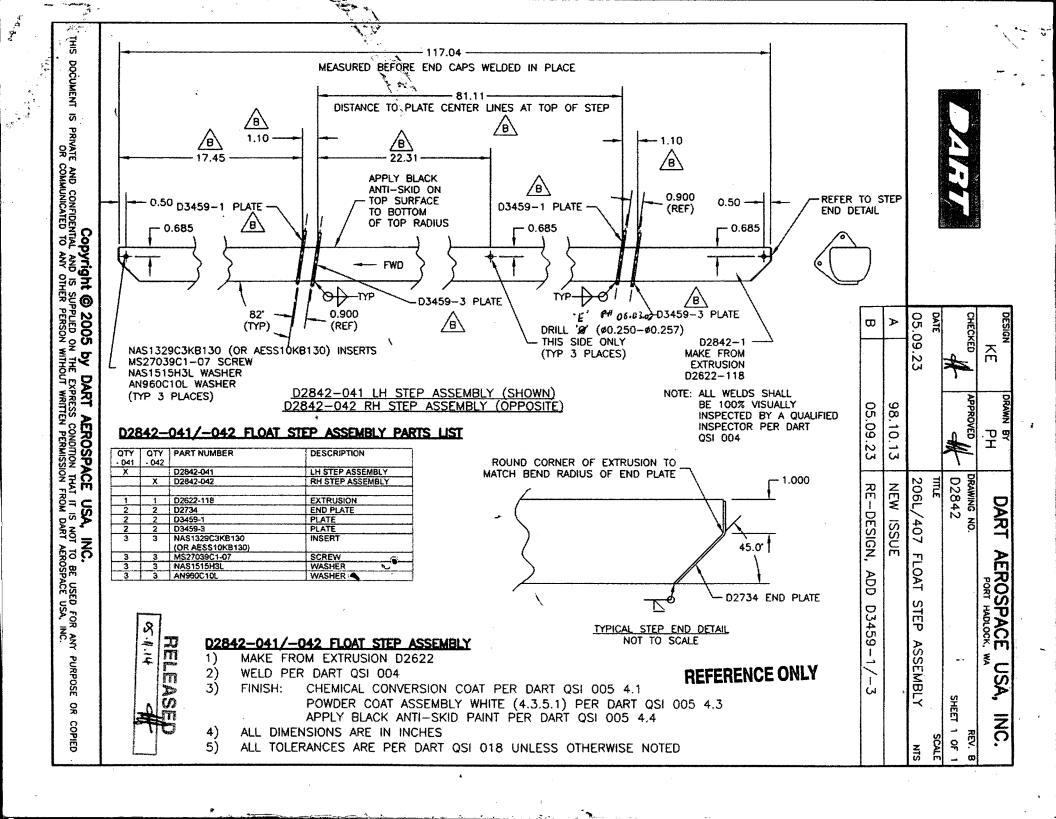
•Date: Wednesday, 1/11/2006 4:10:23 PM Úser: Kim Johnston **Process Sheet** Drawing Name: FLOAT STEP ASSEMBLY LH (206/407) Customer: CU-DAR001 Dart Helicopters Services Part Number: D2842041 Job Number: 23320A Job Number: Description: Seq. #: Machine Or Operation: HAND FINISHING RESOURCE #1 HAND FINISHING1 16.0 Comment: LARGE FABRICATION RESOURCE 1 1-Install inserts as per Dwg D2842 2-Wing Walk as per Dwg D2842 and QSI 005 4.1 Batch: M 1000 37 17.0 QC3/5 Comment: INSPEC PACKAGING RESOURCE #1 18.0 PACKAGING 1 Comment: PACKAGING RESOURCE #1 Identify and Stock 2 406/03/ Location: DOCUMENT CONTROL 19.0 DC Comment: DOCUMENT CONTROL Inspection Level 21 Job Completion

Dart Aerosi	pace Ltd
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W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE		Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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Part No:	PAR #:	_ Fault Category:	NCR: Yes No	DQA:	Date:
			QA: N/C C	losed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
DATE	STEP	Description of NC	Corrective Action Section B			Verification				
		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector		
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RH

## **Jason Murdoch**

From:

David Shepherd [davids@dartaero.com]

Sent:

February 22, 2006 11:05 AM

To: Subject: Jason Murdoch Re: new 206 step welding

The steps that bent during welding are acceptable. With respect to the #30 holes that were drilled on the wrong side of the step, fill them with weld per QSI 004 and grind flush.

David

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---- Original Message -----
From: "Jason Murdoch" <jmurdoch@dartaero.com>
To: "'David Shepherd'" <davids@dartaero.com>
Sent: Wednesday, February 22, 2006 8:35 AM
Subject: RE: new 206 step welding
> Hi. Are these float steps acceptable from what you saw as is? Next time we
> will weld them with not so much heat in one location. One lug plate at a
> time. Also is it ok to fill the holes that were drilled on the opposite
side
> and grind flush? The holes are #30 luckily so they are tiny to fill in.
> jmurdoch@dartaero.com
> Q.C.Inspector
> ----Original Message----
> From: David Shepherd [mailto:davids@dartaero.com]
> Sent: February 15, 2006 3:17 AM
> To: Peter Hum
> Cc: Jason Murdoch (E-mail); Bill Beckett
> Subject: Re: new 206 step welding
> Peter,
> Your 206 step design is very similar to the 119 design and we don't have
> this problem on 119 that I know of.
> I would compare the 206 step welding fixture to the 119 welding fixture.
> it possible that the 206 jig isn't restricting the step
> from moving on you? Does the welder have to move around from front to
back?
>
 David
  ---- Original Message ----
 From: "Peter Hum" <phum@dartaero.com>
> To: "David Shepherd (E-mail)" <davids@dartaero.com>
> Cc: "Jason Murdoch (E-mail)" <jmurdoch@dartaero.com>
> Sent: Tuesday, February 14, 2006 6:06 AM
  Subject: new 206 step welding
> > Hi David,
> >
> > In welding the new 206 step lugs, there has been some bending of the
> > due the heat of the weld. Between the lugs the step is straight. Between
> > lugs and the ends (short distance), the step bends as shown in the
>
  picture.
 > What should we do?
>
  >
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